# TABLE OF CONTENTS

## NO. 1. JANUARY 1950


Electronarcosis. II. Inhibition of electrical activity of cerebral cortex following application of pulsed stimulus to diencephalon. E. MARTINI, T. GUALTIEROTTI AND A. MARZORATI ..... 1

Electronarcosis. III. Inhibition of cortical electrical activity following local application of pulsed stimulus. T. GUALTIEROTTI, E. MARTINI AND A. MARZORATI .... 5

After-potentials and excitability of spinal motoneurones following antidromic activation. C. McC. BROOKS, C. B. B. DOWNMAN AND J. C. ECCLES ..... 9

Dorsal column conduction of Group I muscle afferent impulses and their relay through Clarke's column. DAVID P. C. LLOYD AND A. K. MCINTYRE ..... 39

Cortical inhibition of gastric motility. B. P. BABKIN AND T. J. SPEAKMAN ..... 55

Effect upon blood pressure of electrical stimulation of tips of temporal lobes in man. WILLIAM P. CHAPMAN, KENNETH E. LIVINGSTON AND JAMES L. POPPEN ..... 65

Threshold of action potentials in ear of guinea pig. H. DAVIS, B. E. GERNANDT AND J. S. RIESCO-MACCLURE ..... 73

Site of action of myanesin (mephenesin, tolserol) in the central nervous system. BIRGER R. KAADA ..... 89

Recent Biographies ..... 105

Review ..... 109


## NO. 2. MARCH 1950


Electronarcosis. IV. Effects of square wave application to motor area following destruction of diencephalon. E. MARTINI, T. GUALTIEROTTI AND A. MARZORATI .. 113

Electronarcosis. V. Faradic stimulation of motor area following diencephalic diathermy. T. GUALTIEROTTI, E. MARTINI AND A. MARZORATI ..... 117

Some connections of the orbito-fronto-temporal, limbic and hippocampal areas of *Macaca mulatta*. K. H. PRIBRAM, M. A. LENNOX AND R. H. DUNSMORE ..... 127

Recovery of skilled motor functions after small repeated lesions of motor cortex in macaque. P. GLEES AND J. COLE ..... 137

Course of spinothalamic and medial lemniscus pathways in cat and rhesus monkey. C. M. BERRY, R. C. KARL AND J. C. HINSEY ..... 149

After-potentials and excitability of spinal motoneurones following orthodromic activation. C. McC. BROOKS, C. B. B. DOWNMAN AND J. C. ECCLES ..... 157

Excitation of single nerve fiber by action current from another single fiber. ICHIJI TASAKI ..... 177

## NO. 3. MAY 1950


The central auditory pathway. HARLOW W. ADES AND JOHN M. BROOKHART ..... 189

Stimulation and strychninization of supracallosal anterior cingulate gyrus. REMBRANDT H. DUNSMORE AND MARGARET A. LENNOX ..... 207

Chronic focal hyper-irritability of sensory nervous system in cats. MARGARET A. KENNARD ..... 215

Lack of regeneration in spinal cord of rat. JOHN W. BARNARD AND WALLACE CARPENTER ..... 223

Corticocortical connections of posterior wall of central sulcus in monkey (*Macaca mulatta*). OSCAR SUGAR, LUIS V. AMADOR AND BASIL GRIPONISSIOTIS ..... 229

The repetitive discharges of corticothalamic reverberating circuit. HSIANG-TUNG CHANG ..... 235

Effect of bulbar facilitation and inhibition on peripheral reflex inhibition. L. M. N. BACH ..... 259

Review ..... 265


## NO. 4. JULY 1950


An experimental analysis of biochemically induced circling behavior. CARL F. ESSIG, JOHN L. HAMPSON, ALICE MCCAULEY AND HAROLD E. HIMWICH ..... 269

Visual areas I and II of cerebral cortex of rabbit. J. M. THOMPSON, C. N. WOOLSEY AND S. A. TALBOT ..... 277

Physical significance of strength-duration curve for excitation of nerve. GORDON M. SCHOEPFLE AND NOAH SUSMAN ..... 289

Effect of section of vestibular nerve upon cortically induced movement in cat. W. H. KEMPINSKY AND ARTHUR A. WARD, JR. ..... 295

An analysis of primary response of visual cortex to optic nerve stimulation in cats. HSIANG-TUNG CHANG AND BIRGER KAADA ..... 305

## NO. 5. SEPTEMBER 1950


Central and reflex regulation of motility of pyloric antrum. B. P. BABKIN AND W. C. KITE, JR. ... 321

Gastric motor effects of acute removal of cingulate gyrus and section of brain stem. B. P. BABKIN AND W. C. KITE, JR. ... 335

Inhibition of knee jerk from tendon spindles of crureus. G. P. MCCOUCH, I. D. DEERING AND W. B. STEWART ... 343

Reflex self-regulation of muscle contraction and autogenetic inhibition. RAGNAR GRANIT ... 351

Some physical and pharmacological factors affecting delayed response performance of baboons following frontal lobotomy. KARL H. PRIBRAM ... 373

Electrocorticographic effects of stimulation of posterior orbital, temporal and cingulate areas of *Macaca mulatta*. MARGARET A. LENNOX, REMBRANDT H. DUNSMORE, JOSEPH A. EPSTEIN AND KARL H. PRIBRAM ... 383

Boris Petrovitch Babkin. A. J. CARLSON ... 389

Review ... 391


## NO. 6. NOVEMBER 1950


The elementary vestibulo-ocular reflex arc. JOHN SZENTÁGOTHAI ... 395

Trigeminal neurotomy and blood pressure responses from stimulation of lateral cerebral cortex of *Macaca mulatta*. PATRICK D. WALL AND KARL H. PRIBRAM ... 409

Field of retinal induction and optical illusion. KOITI MOTOKAWA ... 413

Biochemical and physiological differentiation during morphogenesis. X. Onset of electrical activity in developing cerebral cortex of fetal guinea pig. LOUIS B. FLEXNER, DAVID B. TYLER AND LEONARD J. GALLANT ... 427

Termination of spinal afferents to inferior olive in cat. ALF BRODAL, FRED WALBERG AND TH. BLACKSTAD ... 431

Some functional connections between hypothalamus and medulla. W. C. THOMPSON AND L. M. N. BACH ... 455

Spike discharges of single units in the cerebellar cortex. JOHN M. BROOKHART, G. MORUZZI AND RAY S. SNIDER ... 465

Review ... 487